



PATENT  
Attorney Docket No. 018842.1162

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application: )  
Toru YAMAGUCHI et al. ) Examiner L. LEO  
Application Number: 09/779,478 ) Group Art Unit 3743  
Filed: February 9, 2001 )  
FOR: HEAT EXCHANGERS AND FINS )  
FOR HEAT EXCHANGERS AND )  
METHODS FOR )  
MANUFACTURING THE SAME )

RESPONSIVE AMENDMENT UNDER 37 C.F.R. § 1.111

Commissioner of Patents  
U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

AMENDMENTS

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IN THE CLAIMS:

Please replace claims 1 and 3 with replacement claims 1 and 3, as follows:

1. (amended) A fin for a heat exchanger comprising a plurality of waving strips, each having a repeated structure comprising a first flat portion, a first inclined plate portion extending from said first flat portion at a first inclination angle, a second flat portion extending from said first inclined plate portion in parallel to said first flat portion, and a second inclined plate portion extending from said second flat portion at a second inclination angle, arranged in this order, wherein said waving strips are arranged adjacent to each other in a transverse direction to each waving strip and are offset from each other in a longitudinal direction, such that said adjacent waving strips are connected at connecting portions between said first flat portions of said adjacent waving strips and between said second flat portions of said adjacent waving strips, and a length (T) an outer surface and an inner surface of each connecting portion in said longitudinal direction of each waving strip is less than or equal to about a thickness (t) of a plate forming each waving.

3. (amended) A heat exchanger comprising:  
a plurality of flat-type heat transfer tubes and